

In the Claims

Please cancel Claims 1 and 7 without prejudice and add the following:

1 ~~25.~~ An apparatus for forming an occlusion within a body cavity having an
2 ionic fluid therein comprising:

3 a wire adapted to be disposed near an opening into said body cavity;

B1 4 a separable distal tip of said wire adapted for disposition into said body
5 cavity to form said occlusion within said body cavity about said distal tip; and

6 an electrolytically detachable connecting segment coupling said distal tip
7 and said wire.

1 ~~26.~~ The apparatus of Claim ~~25~~ where said distal tip has a length and
2 flexibility to allow said distal tip sufficiently to impede flow of said fluid in said
3 body cavity when said distal tip is disposed in said body cavity.

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1 ~~27.~~ The apparatus of Claim ~~26~~ where said distal tip is comprised of a
2 radio-opaque material and has a long and pliable length sufficient to cause said
3 cavity to appear substantially opaque as determined by fluoroscopic
4 examination.

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1 28. The apparatus of Claim 26 where said distal tip is comprised of a
2 plurality of segments which collectively cause said cavity to appear substantially
3 opaque as determined by fluoroscopic examination.

5 1
2 29. The apparatus of Claim 25 where said connecting segment
3 electrolytically detaches said distal tip from said wire by electrolytically
4 disintegrating at least one portion of said connecting segment extending
between said wire and said distal tip.

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Coil
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2 30. The apparatus of Claim 28 where said connecting segment is a coil
segment which is electrolytically disintegrated to effect detachment.

7 1
2 31. The apparatus of Claim 25 further comprising a catheter into which
3 said wire, distal tip and connecting segment are disposed, and where said
4 connecting segment is retained with said catheter and not at first exposed to said
5 fluid to allow formation of said occlusion about said distal tip, and is then
6 subsequently extended out of said catheter and exposed to said fluid to separate
said distal tip from said wire.

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1 32. An apparatus for use in formation of an occlusion used in combination
2 with a catheter comprising:
3 an electrolyzable core wire; and

4 a separable elongate tip portion extending said core wire and coupled to
5 said distal portion of said core wire, said separable elongate tip portion for
6 insertion within a body cavity, said separable elongate tip portion not resistant to
7 electrolytic disintegration in fluid as compared to said electrolyzable core wire,
8 and said separable elongate tip portion being detachable from said core wire by
9 electrolysis,

10 wherein said separable elongate tip portion is a long and substantially
11 flexible segment and is comprised of a metal not as susceptible to electrolytic
12 disintegration within fluid as said core wire, and

13 wherein said long and flexible segment is prebiased to form a helix
14 when extended from said catheter.

1 33. The apparatus of Claim 32 wherein said helix has a conical envelope.

1 34. The apparatus of Claim 32 wherein said helix has a cylindrical
2 envelope.

1 35. A method for forming an occlusion within a body cavity having an
2 ionic fluid therein comprising the steps of:

3 disposing a separable distal tip of a wire into said body cavity to form said
4 occlusion within said body cavity about said distal tip; and

5 electrolytically detaching said distal tip from said wire to leave said distal
6 tip within said body cavity with said occlusion being formed within said body
7 cavity.

12 11
1 ~~36.~~ The method of Claim ~~35~~ where said step of disposing said distal tip of
2 said wire disposes said distal tip into said body cavity to occupy said cavity to a
3 degree sufficient to impede flow of a fluid in said body cavity.

31 Cont
13 12
1 ~~37.~~ The method of Claim ~~36~~ where said step of disposing said distal tip of
2 said wire disposes a distal tip having a long and pliable length.

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1 ~~38.~~ The method of Claim ~~35~~ where said step of electrolytically detaching
2 said distal tip of said wire electrolytically disintegrates a connecting coupling
3 between said wire and said distal tip to effect separation.

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1 ~~39.~~ The method of Claim ~~38~~ further comprising the step of shielding said
2 coupling between said wire and distal tip from said fluid by disposing said
3 coupling in a catheter to allow formation of said occlusion about said distal tip,
4 and then exposing said coupling to said fluid to electrolytically separate said
5 distal tip from said wire.

1 ~~23~~ 40. The method of Claim 35 further comprising the step of repeating said
2 steps of disposing a wire, disposing a separable distal tip, and electrolytically
3 detaching said distal tip, wherein a plurality of said distal tips are separated and
4 disposed in said body cavity to collectively form an occlusion in said body cavity.

1 41. A method of using a catheter to form an occlusion comprising:
2 disposing an electrolyzable core wire near the situs of said occlusion;
3 disposing a separable elongate tip portion extending from and coupled to
4 said core wire at said situs of said occlusion, said separable elongate tip portion
5 being more resistant to electrolytic disintegration in fluid than said electrolyzable
6 core wire, and being a long and substantially flexible segment prebiased to form
7 a helix when extended from said catheter; and
8 detaching elongate tip portion from said core wire by electrolysis.

1 42. The method of Claim 41 where said step of disposing said separable
2 elongate tip portion disposes a helix with a cylindrical envelope.

1 43. The method of Claim 41 where said step of disposing said separable
2 elongate tip portion disposes said helix with a conical envelope.

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1 44. An apparatus for use in formation of an occlusion within a body cavity
2 comprising:

E 3 ^{core wire}
a ~~wire~~ having at least a electrolyzable distal portion; and
E 4 → a separable elongate tip portion of said ^{core wire} ~~wire~~ coupled to and extending
E → 5 from said ^{core wire} ~~wire~~, said separable elongate tip portion adapted to form said
6 occlusion in said body cavity and being adapted for insertion within said body
7 cavity, said separable elongate tip portion being resistant to electrolysis
8 compared to said distal portion of said core wire, said separable elongate tip
9 portion being coupled to said ^{core wire} ~~wire~~ by said electrolyzable distal portion.

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cont
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1 ^{sub 4} 45. The apparatus of Claim 44 wherein said stainless steel segment
2 comprises a coil having a proximate and distal end and is connected at its
3 proximate end to said core wire and connected at its distal end to said elongate
4 tip portion of said apparatus.

1 46. The apparatus of Claim 44 wherein said coil defines an interior space,
2 said interior space being free and unreinforced.

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1 ⁴⁷ 23 The apparatus of Claim 44 wherein said separable elongate tip
2 portion is a long and substantially flexible segment and is comprised of a metal
3 not as susceptible to electrolytic disintegration as said core wire.